

CRF Errors Corrected by the STIC System Branch

0570
2503 01PE

Serial Number: 10/035,485A

CRF Processing Date: 5/15/02
 Edited by: DC
 Verified by: DC (STIC staff)

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line. **#5**
- ☐ Edited a format error in the Current Application Data section, specifically: **ENTERED**
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: _____
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: _____
- ☒ Deleted: ☒ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file;
☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically: _____
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: _____
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☐ Other: _____

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

#5



OIPE

RAW SEQUENCE LISTING

DATE: 05/15/2002

PATENT APPLICATION: US/10/035,485A

TIME: 15:12:28

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF3\05152002\J035485A.raw

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3 <110> APPLICANT: Brenda F. Baker
4      Lex M. Cowsert
6 <120> TITLE OF INVENTION: ANTISENSE MODULATION OF MATRIX METALLOPROTEINASE 1
EXPRESSION
8 <130> FILE REFERENCE: RTS-0139
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/035,485A
C--> 10 <141> CURRENT FILING DATE: 2001-10-17
10 <160> NUMBER OF SEQ ID NOS: 89
13 <210> SEQ ID NO: 1
14 <211> LENGTH: 20
15 <212> TYPE: DNA
16 <213> ORGANISM: Artificial Sequence
18 <220> FEATURE:
19 <223> OTHER INFORMATION: Antisense Oligonucleotide
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27 <212> TYPE: DNA
28 <213> ORGANISM: Artificial Sequence
30 <220> FEATURE:
31 <223> OTHER INFORMATION: Antisense Oligonucleotide
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38 <211> LENGTH: 1970
39 <212> TYPE: DNA
40 <213> ORGANISM: Homo sapiens
42 <220> FEATURE:
43 <221> NAME/KEY: CDS
44 <222> LOCATION: (69)...(1478)
46 <400> SEQUENCE: 3
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49 aggccagt atg cac agc ttt cct cca ctg ctg ctg ctg ttc tgg ggt      110
50      Met His Ser Phe Pro Pro Leu Leu Leu Leu Phe Trp Gly
51      1          5          10
53 gtg gtg tct cac agc ttc cca gcg act cta gaa aca caa gag caa gat      158
54 Val Val Ser His Ser Phe Pro Ala Thr Leu Glu Thr Gln Glu Gln Asp
55 15          20          25          30
57 gtg gac tta gtc cag aaa tac ctg gaa aaa tac tac aac ctg aag aat      206
58 Val Asp Leu Val Gln Lys Tyr Leu Glu Lys Tyr Tyr Asn Leu Lys Asn
59          35          40          45
61 gat ggg agg caa gtt gaa aag cgg aga aat agt ggc cca gtg gtt gaa      254
62 Asp Gly Arg Gln Val Glu Lys Arg Arg Asn Ser Gly Pro Val Val Glu

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63	50	55	60	
65	aaa ttg aag caa atg cag gaa ttc ttt ggg ctg aaa gtg act ggg aaa	302		
66	Lys Leu Lys Gln Met Gln Glu Phe Phe Gly Leu Lys Val Thr Gly Lys			
67	65 70 75			
69	cca gat gct gaa acc ctg aag gtg atg aag cag ccc aga tgt gga gtg	350		
70	Pro Asp Ala Glu Thr Leu Lys Val Met Lys Gln Pro Arg Cys Gly Val			
71	80 85 90			
73	cct gat gtg gct cag ttt gtc ctc act gag ggg aac cct cgc tgg gag	398		
74	Pro Asp Val Ala Gln Phe Val Leu Thr Glu Gly Asn Pro Arg Trp Glu			
75	95 100 105 110			
77	caa aca cat ctg acc tac agg att gaa aat tac acg cca gat ttg cca	446		
78	Gln Thr His Leu Thr Tyr Arg Ile Glu Asn Tyr Thr Pro Asp Leu Pro			
79	115 120 125			
81	aga gca gat gtg gac cat gcc att gag aaa gcc ttc caa ctc tgg agt	494		
82	Arg Ala Asp Val Asp His Ala Ile Glu Lys Ala Phe Gln Leu Trp Ser			
83	130 135 140			
85	aat gtc aca cct ctg aca ttc acc aag gtc tct gag ggt caa gca gac	542		
86	Asn Val Thr Pro Leu Thr Phe Thr Lys Val Ser Glu Gly Gln Ala Asp			
87	145 150 155			
89	atc atg ata tct ttt gtc agg gga gat cat cgg gac aac tct cct ttt	590		
90	Ile Met Ile Ser Phe Val Arg Gly Asp His Arg Asp Asn Ser Pro Phe			
91	160 165 170			
93	gat gga cct gga gga aat ctt gct cat gct ttt caa cca ggc cca ggt	638		
94	Asp Gly Pro Gly Gly Asn Leu Ala His Ala Phe Gln Pro Gly Pro Gly			
95	175 180 185 190			
97	att gga ggg gat gct cat ttt gat gaa gat gaa agg tgg acc aac aat	686		
98	Ile Gly Gly Asp Ala His Phe Asp Glu Asp Glu Arg Trp Thr Asn Asn			
99	195 200 205			
101	ttc aga gag tac aac tta cat cgt gtt gcg gct cat gaa ctc ggc cat	734		
102	Phe Arg Glu Tyr Asn Leu His Arg Val Ala Ala His Glu Leu Gly His			
103	210 215 220			
105	tct ctt gga ctc tcc cat tct act gat atc ggg gct ttg atg tac cct	782		
106	Ser Leu Gly Leu Ser His Ser Thr Asp Ile Gly Ala Leu Met Tyr Pro			
107	225 230 235			
109	agc tac acc ttc agt ggt gat gtt cag cta gct cag gat gac att gat	830		
110	Ser Tyr Thr Phe Ser Gly Asp Val Gln Leu Ala Gln Asp Asp Ile Asp			
111	240 245 250			
113	ggc atc caa gcc ata tat gga cgt tcc caa aat cct gtc cag ccc atc	878		
114	Gly Ile Gln Ala Ile Tyr Gly Arg Ser Gln Asn Pro Val Gln Pro Ile			
115	255 260 265 270			
117	ggc cca caa acc cca aaa gca tgt gac agt aag cta acc ttt gat gct	926		
118	Gly Pro Gln Thr Pro Lys Ala Cys Asp Ser Lys Leu Thr Phe Asp Ala			
119	275 280 285			
121	ata act acg att cgg gga gaa gtg atg ttc ttt aaa gac aga ttc tac	974		
122	Ile Thr Thr Ile Arg Gly Glu Val Met Phe Phe Lys Asp Arg Phe Tyr			
123	290 295 300			
125	atg cgc aca aat ccc ttc tac ccg gaa gtt gag ctc aat ttc att tct	1022		
126	Met Arg Thr Asn Pro Phe Tyr Pro Glu Val Glu Leu Asn Phe Ile Ser			
127	305 310 315			

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129 gtt ttc tgg cca caa ctg cca aat ggg ctt gaa gct gct tac gaa ttt 1070
130 Val Phe Trp Pro Gln Leu Pro Asn Gly Leu Glu Ala Ala Tyr Glu Phe
131      320      325      330
133 gcc gac aga gat gaa gtc cgg ttt ttc aaa ggg aat aag tac tgg gct 1118
134 Ala Asp Arg Asp Glu Val Arg Phe Phe Lys Gly Asn Lys Tyr Trp Ala
135 335      340      345      350
137 gtt cag gga cag aat gtg cta cac gga tac ccc aag gac atc tac agc 1166
138 Val Gln Gly Gln Asn Val Leu His Gly Tyr Pro Lys Asp Ile Tyr Ser
139      355      360      365
141 tcc ttt ggc ttc cct aga act gtg aag cat atc gat gct gct ctt tct 1214
142 Ser Phe Gly Phe Pro Arg Thr Val Lys His Ile Asp Ala Ala Leu Ser
143      370      375      380
145 gag gaa aac act gga aaa acc tac ttc ttt gtt gct aac aaa tac tgg 1262
146 Glu Glu Asn Thr Gly Lys Thr Tyr Phe Phe Val Ala Asn Lys Tyr Trp
147      385      390      395
149 agg tat gat gaa tat aaa cga tct atg gat cca ggt tat ccc aaa atg 1310
150 Arg Tyr Asp Glu Tyr Lys Arg Ser Met Asp Pro Gly Tyr Pro Lys Met
151      400      405      410
153 ata gca cat gac ttt cct gga att ggc cac aaa gtt gat gca gtt ttc 1358
154 Ile Ala His Asp Phe Pro Gly Ile Gly His Lys Val Asp Ala Val Phe
155 415      420      425      430
157 atg aaa gat gga ttt ttc tat ttc ttt cat gga aca aga caa tac aaa 1406
158 Met Lys Asp Gly Phe Phe Tyr Phe Phe His Gly Thr Arg Gln Tyr Lys
159      435      440      445
161 ttt gat cct aaa acg aag aga att ttg act ctc cag aaa gct aat agc 1454
162 Phe Asp Pro Lys Thr Lys Arg Ile Leu Thr Leu Gln Lys Ala Asn Ser
163      450      455      460
165 tgg ttc aac tgc agg aaa aat tga acattactaa tttgaatgga aaacacatgg 1508
166 Trp Phe Asn Cys Arg Lys Asn
167      465
169 tgtgagtcca aagaaggtgt tttcctgaag aactgtctat tttctcagtc atttttaacc 1568
171 tctagagtca ctgatacaca gaataataatc ttattttatac ctcagtttgc atattttttt 1628
173 actatattaga atgtagccct ttttgtagctg atataattta gttccacaaa tgggtgggtac 1688
175 aaaaagtcaa gtttggtggt tatggattca tataggccag agttgcaaag atcttttcca 1748
177 gagtatgcaa ctctgacgtt gatcccagag agcagcttca gtgacaaaaca tatcctttca 1808
179 agacagaaaag agacaggaga catgagtctt tgccggagga aaagcagctc aagaacacat 1868
181 gtgcagtcac tgggtgtcac ctggatagga aagggataac tcttctaaca caaaataagt 1928
183 gtttttatgtt tggaataaag tcaaccttgt ttctactgtt tt 1970
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187 <211> LENGTH: 18
188 <212> TYPE: DNA
189 <213> ORGANISM: Artificial Sequence
191 <220> FEATURE:
192 <223> OTHER INFORMATION: PCR Primer
194 <400> SEQUENCE: 4
195 cctcgctggg agcaaaca 18
198 <210> SEQ ID NO: 5
199 <211> LENGTH: 21
200 <212> TYPE: DNA

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RAW SEQUENCE LISTING

DATE: 05/15/2002

PATENT APPLICATION: US/10/035,485A

TIME: 15:12:28

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF3\05152002\J035485A.raw

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201 <213> ORGANISM: Artificial Sequence
203 <220> FEATURE:
204 <223> OTHER INFORMATION: PCR Primer
206 <400> SEQUENCE: 5
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210 <210> SEQ ID NO: 6
211 <211> LENGTH: 31
212 <212> TYPE: DNA
213 <213> ORGANISM: Artificial Sequence
215 <220> FEATURE:
216 <223> OTHER INFORMATION: PCR Probe
218 <400> SEQUENCE: 6
219 tctgacctac aggattgaaa attacacgcc a 31
222 <210> SEQ ID NO: 7
223 <211> LENGTH: 19
224 <212> TYPE: DNA
225 <213> ORGANISM: Artificial Sequence
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228 <223> OTHER INFORMATION: PCR Primer
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231 gaaggtgaag gtcggagtc 19
234 <210> SEQ ID NO: 8
235 <211> LENGTH: 20
236 <212> TYPE: DNA
237 <213> ORGANISM: Artificial Sequence
239 <220> FEATURE:
240 <223> OTHER INFORMATION: PCR Primer
242 <400> SEQUENCE: 8
243 gaagatgggtg atgggatttc 20
246 <210> SEQ ID NO: 9
247 <211> LENGTH: 20
248 <212> TYPE: DNA
249 <213> ORGANISM: Artificial Sequence
251 <220> FEATURE:
252 <223> OTHER INFORMATION: PCR Probe
254 <400> SEQUENCE: 9
255 caagcttccc gttctcagcc 20
258 <210> SEQ ID NO: 10
259 <211> LENGTH: 20
260 <212> TYPE: DNA
261 <213> ORGANISM: Artificial Sequence
263 <220> FEATURE:
264 <223> OTHER INFORMATION: Antisense Oligonucleotide
266 <400> SEQUENCE: 10
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270 <210> SEQ ID NO: 11
271 <211> LENGTH: 20
272 <212> TYPE: DNA
273 <213> ORGANISM: Artificial Sequence

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TIME: 15:12:28

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF3\05152002\J035485A.raw

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276 <223> OTHER INFORMATION: Antisense Oligonucleotide
278 <400> SEQUENCE: 11
279 aaggtaagtg atggcttccc                                20
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283 <211> LENGTH: 20
284 <212> TYPE: DNA
285 <213> ORGANISM: Artificial Sequence
287 <220> FEATURE:
288 <223> OTHER INFORMATION: Antisense Oligonucleotide
290 <400> SEQUENCE: 12
291 ctggcctttg tcttctttct                                20
294 <210> SEQ ID NO: 13
295 <211> LENGTH: 20
296 <212> TYPE: DNA
297 <213> ORGANISM: Artificial Sequence
299 <220> FEATURE:
300 <223> OTHER INFORMATION: Antisense Oligonucleotide
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303 gcagtggagg aaagctgtgc                                20
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307 <211> LENGTH: 20
308 <212> TYPE: DNA
309 <213> ORGANISM: Artificial Sequence
311 <220> FEATURE:
312 <223> OTHER INFORMATION: Antisense Oligonucleotide
314 <400> SEQUENCE: 14
315 acaccccaga acagcagcag                                20
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319 <211> LENGTH: 20
320 <212> TYPE: DNA
321 <213> ORGANISM: Artificial Sequence
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324 <223> OTHER INFORMATION: Antisense Oligonucleotide
326 <400> SEQUENCE: 15
327 cgctgggaag ctgtgagaca                                20
330 <210> SEQ ID NO: 16
331 <211> LENGTH: 20
332 <212> TYPE: DNA
333 <213> ORGANISM: Artificial Sequence
335 <220> FEATURE:
336 <223> OTHER INFORMATION: Antisense Oligonucleotide
338 <400> SEQUENCE: 16
339 ttgctcttgt gtttctagag                                20
342 <210> SEQ ID NO: 17
343 <211> LENGTH: 20
344 <212> TYPE: DNA
345 <213> ORGANISM: Artificial Sequence
347 <220> FEATURE:

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VERIFICATION SUMMARY

DATE: 05/15/2002

PATENT APPLICATION: US/10/035,485A

TIME: 15:12:29

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF3\05152002\J035485A.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date